

WHAT IS CLAIMED IS:

1. A FireWire/USB based charger comprising:
a plug seat comprising a casing inside which a shunting/regulating circuit board is fixed, the circuit board further comprising:
a pair of cigarette-lighting receptacle connecting wires, having a cigarette-lighting plug at one end for plugging into an on-vehicle cigarette-lighting receptacle of an automotive; and the other end connected with the circuit board for input of current from electrical system of the automotive,
a USB bus cable comprising a first end forming a USB jack for selective connection with a first electronic device having a USB interface and a second end for connection with the circuit board to convert the input power and supplying the converted power to the USB interface, and
a FireWire bus cable comprising a third end forming a FireWire jack for selectively receiving a second electronic device having a FireWire interface and a fourth end for connection with the circuit board to convert the input power and supplying the converted power to the FireWire interface; and
the casing forming three receptacles for sleeve-jointing with the plug, USB jack, and FireWire jack respectively.
2. The charger according to Claim 1, wherein the circuit board is fixed inside the casing by way of plug-disposition or slide-disposition or screw-disposition.
3. The charger according to Claim 1, wherein a tube fuse is connected between the paired conductive wires in series for over-current protection.
4. The charger according to Claim 3, wherein the shunting/regulating circuit comprises:
a current-shunting unit electrically connected with a fuse unit, the fuse unit comprising a tube fuse for introducing the vehicle power through a receptacle of on-vehicle cigarette lighter and shunting current;
a voltage-converting unit electrically connected with the current-shunting unit

- for converting 12 VDC into 5 VDC and outputting the same;
- a 5VDC-regulating unit electrically connected with the voltage-converting unit for regulating 5VDC and outputting the same to said USB jack; and
- a 12VDC-regulating unit electrically connected with the current-shunting unit for regulating 12VDC and outputting the same to said FireWire jack.

5. The charger according to Claim 4, wherein the voltage-converting unit comprises a voltage divider.